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1643

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TECH CENTER 1600/2900

RAW SEQUENCE LISTING
PATENT APPLICATION **US/09/176,664**

DATE: 03/24/1999
TIME: 17:15:18

Input Set: **I176664.RAW**

This Raw Listing contains the General Information Section and up to first 5 pages.

see p. 5

ENTERED

<110> APPLICANT: Salkoff, Lawrence
Schreiber, Matthew
Silvia, Chris
The Washington University
ICAgen Inc.
<120> TITLE OF INVENTION: A pH Sensitive Potassium Channel in Spermatocytes
<130> FILE REFERENCE: 018512-000120US
<140> CURRENT APPLICATION NUMBER: US/09/176,664
<141> CURRENT FILING DATE: 1998-10-21
<150> EARLIER APPLICATION NUMBER: US 60/063,138
<151> EARLIER FILING DATE: 1997-10-22
<150> EARLIER APPLICATION NUMBER: US 60/076,172
<151> EARLIER FILING DATE: 1998-02-27
<160> NUMBER OF SEQ ID NOS: 53
<170> SOFTWARE: PatentIn Ver. 2.0
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<222> LOCATION: (5)
<223> OTHER INFORMATION: polymorphic variant #2 Leu -> Ile
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             20                  25                  30
Ala Thr Phe Phe Gly Gly Leu Ile Ile Leu Phe Leu Phe Arg Ile Ala
         35                  40                  45
Leu Lys Ser Ser Arg Ser Trp Lys Tyr Val Lys Gly Pro Arg Gly Leu
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Leu Glu Leu Phe Ser Ser Arg Arg Ile Glu Ala Asn Pro Leu Arg Lys
 65                  70                  75                  80
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46                           85                  90                  95
47          Ala Gln Thr Val Val Gly Gln Val Leu Val Ile Leu Val Phe Val Leu
48                      100                 105                 110
49          Ser Ile Gly Ser Leu Val Ile Tyr Phe Ile Asn Ser Met Asp Pro Val
50                  115                 120                 125
51          Arg Arg Cys Ser Ser Tyr Glu Asp Lys Ile Val His Gly Asp Leu Ser
52              130                 135                 140
53          Phe Asn Ala Phe Phe Ser Phe Tyr Phe Gly Leu Arg Phe Trp Ala Ala
54          145                 150                 155                 160
55          Glu Asp Lys Ile Lys Phe Trp Leu Glu Met Asn Ser Ile Val Asp Ile
56                           165                 170                 175
57          Phe Thr Ile Pro Pro Thr Phe Ile Ser Tyr Tyr Leu Lys Ser Asn Trp
58                      180                 185                 190
59          Leu Gly Leu Arg Phe Leu Arg Ala Leu Arg Leu Leu Glu Leu Pro Lys
60                  195                 200                 205
61          Ile Leu Gln Ile Leu Gln Val Ile Lys Thr Ser Asn Ser Val Lys Leu
62              210                 215                 220
63          Ser Lys Leu Leu Ser Ile Val Ile Ser Thr Trp Phe Thr Ala Ala Gly
64          225                 230                 235                 240
65          Phe Leu His Leu Val Glu Asn Ser Gly Asp Pro Trp Leu Asn Gly Arg
66                           245                 250                 255
67          Asn Ser Gln Thr Met Ser Tyr Phe Glu Ser Ile Tyr Leu Val Thr Ala
68                      260                 265                 270
69          Thr Met Ser Thr Val Gly Phe Gly Asp Val Val Ala Lys Thr Ser Leu
70                  275                 280                 285
71          Gly Arg Ile Phe Ile Val Phe Phe Thr Leu Gly Ser Leu Ile Leu Phe
72              290                 295                 300
73          Ala Asn Tyr Ile Pro Glu Met Val Glu Leu Phe Ser Thr Arg Lys Lys
74          305                 310                 315                 320
75          Tyr Thr Lys Pro Tyr Glu Ala Val Lys Gly Lys Lys Phe Ile Val Val
76                           325                 330                 335
77          Cys Gly Asn Ile Thr Val Asp Ser Val Thr Ala Phe Leu Arg Asn Phe
78                      340                 345                 350
79          Leu His Trp Lys Ser Gly Glu Ile Asn Ile Glu Ile Val Phe Leu Gly
80                  355                 360                 365
81          Glu Thr Leu Pro Cys Leu Glu Leu Glu Thr Leu Leu Lys Cys His Thr
82              370                 375                 380
83          Ser Cys Thr Asn Phe Val Cys Gly Thr Ala Leu Lys Phe Glu Asp Leu
84          385                 390                 395                 400
85          Lys Arg Val Ala Val Glu Asn Ser Glu Ala Cys Leu Ile Leu Ala Asn
86                           405                 410                 415
87          His Phe Cys Ser Asp Leu His Asp Glu Asp Asn Ser Asn Ile Met Arg
88                      420                 425                 430
89          Val Leu Ser Ile Lys Asn Tyr Tyr Pro Gln Thr Arg Val Ile Ile Gln
90                  435                 440                 445
91          Ile Leu Gln Ser Gln Asn Lys Val Phe Leu Ser Lys Ile Pro Asn Trp
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93          Asp Trp Ser Ala Gly Asp Asn Ile Leu Cys Phe Ala Glu Leu Lys Leu
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 98                          500                 505                 510
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            980                 985                 990
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Arg Gly Arg Ile Ser Ser Ile Arg Thr Met Pro Thr Ser Pro Thr Ile
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241 <213> ORGANISM: Homo sapiens
242 <220> FEATURE:
243 <223> OTHER INFORMATION: human Slo3-a (hSlo3-a)
244 <220> FEATURE:

Please Note:
Use [n and/or Xaa] have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION **US/09/176,664**

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